INDEX TO VOLUME 56, 1994

AUTHOR INDEX

Abdul-Aziz, T. 397
Abiven, P. 338
Abu Damir, H. 310
Ahmad, N. 95
Aktas, M. 30
Alison, M. R. 208
Amory, H. 75
Andersen, A. 116
Anilkumar, T. V. 208
Arican, M. 290
Auguste, D. 30
Awakura, T. 108

Baker, S. J. 164, 256, 386
Barreto, C. 53
Barron, R. J. 151
Bennett, D. 133, 290
Bennett, M. 133
Blanchard, A. 179
Bolton, C. H. 82
Braun, J. P. 30
Breukink, H. J. 126
Brikas, P. 69
Brouqui, P. 170
Buchan, W. 262

Campo, M. S. 151
Care, A. D. 114
Carli, S. 144
Carter, M. J. 133
Carter, S. D. 133, 290
Ceci, L. 144
Chen, R. 62
Church, D. B. 175
Clarke, C. R. 158
Clarke, L. K. 240
Close, R. 363
Cobb, M. A. 245
Concordet, D. 30
Cooke, R. G. 95
Crevat, D. 338
Crispin, S. M. 82
Crockard, A. D. 100

Dawson, S. 133
Day, M. J. 18
de la Riva, C. F. 234
De Natale, G. 144
De Smet, K. 89
De Waele, K. 89
Denamur, E. 116
Desmecht, D. 75
Desmettre, P. 338
Dick, L. 310
Dobson, H. 389
Downham, D. Y. 265
Downs, L. G. 82
Dua, K. 114
Dunn, M. J. 245

Eb, F. 116
Elion, J. 116
Else, R. W. 225
El-Sukhon, S. N. 397
Emslie, D. R. 175

Forhead, A. J. 389
Fowler, J. N. 389
France, M. P. 319
French, J. 389

Gaskell, R. M. 133
Gerring, E. L. 164, 256, 386
Gesbert, F. 179
Gill, H. S. 41
Goodall, E. A. 100
Granstrom, D. E. 284
Gray, G. D. 41
Guittet, M. 179
Gyrd-Hansen, N. 48

Hague, C. M. 158
Hill, M. A. 240
Hinchcliff, K. W. 352
Hoogendoorn, A. 379
Horsburgh, B. A. 3
Husband, A. J. 41
Hussin, A. A. 193, 201

Ikin, P. 389
Ilkiw, J. E. 129
Isobe, T. 123
Iwaki, N. 298

Jarrett, W. F. H. 151
Jasni, S. 186
Jensen, A. L. 24
Johansen, G. M. 216
Johnson, C. B. 373
Joordan, M. 240

Kalsbeek, H. C. 126
Kato, S. 298, 332
Kazama, S. 108
Kelly, P. J. 170
Kempf, I. 179
Kennedy, D. G. 100
Kennedy, S. 100
Kent, J. E. 8
Knox, K. E. 240
Kobisch, M. 338
Koch, J. 24
Kondo, F. 277
Krausz, T. 208

Larsen, H. J. S. 216
Latif, N. 245
Lawson, G. H. K. 186
Le Potier, M. F. 338
Lefebvre, H. 30
Lekeux, P. 75, 363
Lessley, B. A. 158
Levonen, K. 111
Lillehoj, H. S. 1
Linden, A. 75
Longo, F. 62

McEntee, K. 75
McKeever, K. H. 352
Mackie, D. P. 100
McNair, J. 100
McOrist, S. 186
Madonna, M. 144
Mahalingam, S. 393
Mahan, S. M. 170
Marcotrigiano, G. O. 144
Martin, P. K. 259
Mason, P. R. 170
Matthewman, L. A. 170
Matthews, D. 346
May, C. 290
Meanger, J. 133
Merritt, J. R. 265
Middleton, D. J. 1

Milne, J. S. 310
Milon, A. 116
Milton, I. 133
Mineo, H. 298, 332
Misson, B. H. 234
Morita, T. 108
Muir III, W. W. 35
Murray, R. D. 265

Nabuurs, M. J. A. 379
Naylor, R. D. 259
Nevison, I. M. 303, 310
Nielsen, P. 48

Odedra, R. 245
Onaga, T. 298, 332
O'Neil, W. 151
Ormas, P. 144
Øvernes, G. 216

Parrott, R. F. 175
Pensaert, M. 89
Peter, T. 170
Phillippo, M. 303, 310
Pighetti, G. M. 25
Pollock, J. M. 100
Poulsen, J. S. D. 24

Quigley, P. J. 208

Rabanal, R. M. 225
Raj, A. B. M. 325
Rajaratne, A. A. J. 262
Raoult, D. 170
Reid, G. W. 303
Reinhold, P. 363
Robertson, I. S. 8
Rodriguez, P. 116
Rothwell, T. L. W. 319
Russell, W. B. 265

Saran, A. 62
Sarraf, C. E. 208
Sayada, C. 116
Scheidt, A. B. 240
Scott, A. C. 346
Scott, D. 262
Semu, S. 170
Shimada, A. 108
Shimizu, S. 123
Shpigel, N. Y. 62
Simmons, M. M. 346
Sordillo, L. M. 25
Sunil-Chandra, N. P. 393
Suzuki, K. 123

Tan, K. 175
Tassi, P. 144
Taylor, P. M. 373
Teclaw, R. F. 240
Terui, Y. 332
Thorp, B. H. 310
Timoney, P. J. 284
Toutain, P. L. 30
Tsai, C.-E. 277
Turner, P. C. 133

Umemura, T. 108

Van der Kolk, J. H. 126
Van Mosel, M. 270
Van Zijderveld, F. G. 379
Van't Klooster, A. Th. 270
Vinclair, P. 30
Voigt, R. P. 208

Waldeland, H. 216
Walker, J. L. 158
Walsh, D. M. 100
Watson, A. D. J. 175
Watson, D. L. 41
Wells, G. A. H. 346
Wenck, A. 24
Wensing, T. 126
Wilesmith, J. W. 346
Williams, N. M. 284
Wills, J. M. 82
Wilsman, N. J. 53
Windon, R. G. 319
Winkler, M. 62
Woldehiwet, Z. 193, 201
Wong, D. 175
Wouterse, H. S. 270

Yagihashi, T. 108
Yoshihara, S. 123
Young, S. S. 373

Zabielski, R. 332
Zani, V. 82
Ziv, G. 62

SUBJECT INDEX

1,25 dihydroxyvitamin D in prepartal dairy cows, Effects of dietary acidity on calcium balance and mobilisation, bone morphology and, 310

α_1-acid glycoprotein and albumin concentrations in serum and subcutaneous tissue chamber fluid of calves, Effect of *Pasteurella haemolytica* infection on, 158
Acute arthritis of cats associated with feline calicivirus infection, 133
Aflatoxin B_1 in broiler chicks and its reduction by activated charcoal, Toxicity of, 37
Albumin concentrations in serum and subcutaneous tissue chamber fluid of calves, Effect of *Pasteurella haemolytica* infection on α_1-acid glycoprotein and, 158
Analysis of *Eimeria acervulina*-induced changes in the intestinal T lymphocyte subpopulations in two chicken strains showing different levels of susceptibility to coccidiosis, 1
Analysis of schizont antigen of *Leucocytozoon caulleryi* by SDS-PAGE and Western blot, 123
Analysis of the frequency spectrum of the equine electroencephalogram during halothane anaesthesia, 373
Antibody-containing cells in the abomasal mucosa of sheep with genetic resistance to *Haemonchus contortus*, 41
Anti-inflammatory ketoprofen in the treatment of field cases of bovine mastitis, 62
Arthritis of cats associated with feline calicivirus infection, Acute, 133
Aujeszky's disease on maternally immune pigs, Influence of vaccine medium and vaccination schedules on the induction of active immunity against, 89

Basophil leucocytes in responses to parasitic infection and some other stimuli in sheep, 319
Betamethasone-treated chicks, Pathogenicity of *Enterococcus hirae* for chicken embryos and, 397
Blocking ELISA using a monoclonal antibody for the serological detection of *Mycoplasma hyopneumoniae*, A, 338
Blood samples obtained from the cephalic and external jugular veins in dogs, Comparison of results of haematological and chemical analyses of, 24
Bone in dairy cows at parturition, Effects of reducing dietary $([Na^+ + K^+) - (Cl^- + SO_4^{=}])$ on, 270
Bone morphology and 1,25 dihydroxyvitamin D in prepartal dairy cows, Effects of dietary acidity on calcium balance and mobilisation, 310
Border disease virus in ovine lymphocytes and monocytes in vitro, Replication of, 193
Border disease virus on lymphocyte subpopulations in the peripheral blood of lambs, Effects of experimental infection with, 201
Bovine spongiform encephalopathy, Correlation between the results of a histopathological examination and the detection of abnormal brain fibrils in the diagnosis of, 346

Calcium balance and mobilisation, bone morphology and 1,25 dihydroxyvitamin D in prepartal dairy cows, Effects of dietary acidity on, 310
Calicivirus infection, Acute arthritis of cats associated with feline, 133
Cardiomyopathy, Use of indirect immunofluorescence and Western blotting to assess the role of circulating antimyocardial antibodies in dogs with dilated, 245
Castration on behaviour and plasma cortisol in calves of three ages, Effect of different methods of, 8
Changes in plasma lipoprotein during the oestrous cycle of the bitch, 82
Charcoal, Toxicity of aflatoxin B_1 in broiler chicks and its reduction by activated, 37
Chlamydia psittaci, Homogeneity of the major outer membrane protein gene of feline, 116
Cholecystokinin-8 and pentagastrin on plasma concentrations of insulin and glucagon in sheep, Effects of intravenous infusions of, 298
Clostridium perfringens epsilon toxin, A latex agglutination test for the qualitative detection of, 259
Coccidiosis, Analysis of *Eimeria acervulina*-induced changes in the intestinal T lymphocyte subpopulations in two chicken strains showing different levels of susceptibility to, 1
Colostrum, Detection of enzootic pneumonia in pig herds using an enzyme-linked immunosorbent assay in sow, 111
Comparison of antigenic and pathogenic properties of *Mycoplasma iowae* strains and development of a PCR-based detection assay, 179
Comparison of results of haematological and chemical analyses of blood samples obtained from the cephalic and external jugular veins in dogs, 24
Correlation between the results of a histopathological examination and the detection of abnormal brain fibrils in the diagnosis of bovine spongiform encephalopathy, 346
Corticoids in normal horses and horses with hyperadrenocorticism, Urinary concentration of, 126
Cortisol concentrations in dogs, Effect of non-adrenal illness, anaesthesia and surgery on plasma, 129
Cowdria ruminantium, Serological evidence for antigenic relationships between *Ehrlichia canis* and, 170
Creatine kinase in dog plasma: preanalytical factors of variation, reference values and diagnostic significance, 30
Cytokeratin and vimentin intermediate filament proteins in canine mammary tumours, Immunohistochemical localisation of, 225

Detection of enzootic pneumonia in pig herds using an enzyme-linked immunosorbent assay in sow colostrum, 111
Diarrhoea in buffalo calves in Sri Lanka, Rotavirus-associated, 393

Effect of different methods of castration on behaviour and plasma cortisol in calves of three ages, 8

Effect of non-adrenal illness, anaesthesia and surgery on plasma cortisol concentration in dogs, 129
Effect of *Pasteurella haemolytica* infection on α_1-acid glycoprotein and albumin concentrations in serum and subcutaneous tissue chamber fluid of calves, 158
Effect of phenylbutazone on the haemodynamic, acid-base and eicosanoid responses of horses to sustained submaximal exertion, 352
Effects of a change in phosphorus requirement on phosphorus kinetics in the sheep, 262
Effects of dietary acidity on calcium balance and mobilisation, bone morphology and 1,25 dihydroxyvitamin D in prepartal dairy cows, 310
Effects of dietary vitamin E and selenium on in vitro cellular immune responses in cattle, 100
Effects of experimental infection with Border disease virus on lymphocyte subpopulations in the peripheral blood of lambs, 201
Effects of intravenous infusions of cholecystokinin-8 and pentagastrin on plasma concentrations of insulin and glucagon in sheep, 298
Effects of proligesterone and megestrol on plasma adrenocorticotrophic hormone, insulin and insulin-like growth factor-1 concentrations in cats, 175
Effects of reducing dietary ($[Na^+ + K^+) - (Cl^- + SO_4^=]$) on bone in dairy cows at parturition, 270
Effects of repeated challenges with exogenous oestradiol benzoate and progesterone on reproduction in prepubertal Hubei White and Meishan cross gilts, 119
Effects of weaning and enterotoxigenic *Escherichia coli* on net absorption in the small intestine of pigs, 379
Ehrlichia canis and *Cowdria ruminantium*, Serological evidence for antigenic relationships between, 170
Ehrlichia phagocytophila, Immunosuppression in sheep experimentally infected with, 216
Ehrlichia risticii infection, Humoral antibody and lymphocyte blastogenesis responses in BALB/c, C3H/HeJ and AKR/N mice following, 284
Eimeria acervulina-induced changes in the intestinal T lymphocyte subpopulations in two chicken strains showing different levels of susceptibility to coccidiosis, Analysis of, 1
Electroencephalogram during halothane anaesthesia, Analysis of the frequency spectrum of the equine, 373
Enteritis in hamsters: an ultrastructural study, Experimentally induced proliferative, 186
Enterococcus hirae for chicken embryos and betamethasone-treated chicks, Pathogenicity of, 397
Enzootic pneumonia in pig herds using an enzyme-linked immunosorbent assay in sow colostrum, Detection of 111
Escherichia coli on net absorption in the small intestine of pigs, Effects of weaning and enterotoxigenic 379
Exertion, Effect of phenylbutazone on the haemodynamic, acid-base and eicosanoid responses of horses to sustained submaximal 352
Experimentally induced proliferative enteritis in hamsters: an ultrastructural study, 186

Foot shape in cattle, Observer variation in field data describing, 265

GABA receptors in the control of the omasal myoelectrical activity in sheep, The role of, 69
Gases, An investigation into the batch killing of turkeys in their transport containers using mixtures of, 325
Gastric emptying of four liquid meals in pony foals, 164
Gastric emptying of solid, non-digestible, radiopaque markers in ponies, 386
Gastric emptying of water in foals by impedance epigastrography, Measurement of, 256
Glucagon in sheep, Effects of intravenous infusions of cholecystokinin-8 and pentagastrin on plasma concentrations of insulin and, 298
Glycosaminoglycan and keratan sulphate in canine arthropathies, Measurement of, 290

Haemonchus contortus, Antibody-containing cells in the abomasal mucosa of sheep with genetic resistance to, 41
Halothane anaesthesia, Analysis of the frequency spectrum of the equine electroencephalogram during, 373
Homogeneity of the major outer membrane protein gene of feline *Chlamydia psittaci*, 116
Humoral antibody and lymphocyte blastogenesis responses in BALB/c, C3H/HeJ and AKR/N mice following *Ehrlichia risticii* infection, 284
Hyperadrenocorticism, Urinary concentration of corticoids in normal hoses and horses with, 126
Hypertrophic chondrocyte volume and growth rates in avian growth plate, 53
Hypocalcaemia in dairy cows: effects of dietary acidity on plasma minerals and calciotrophic hormones, Parturient, 303

Immunohistochemical localisation of cytokeratin and vimentin intermediate filament proteins in canine mammary tumours, 225
Immunopathological study of deep pyoderma in the dog, An, 18
Immunosuppression in sheep experimentally infected with *Ehrlichia phagocytophila*, 216
Influence of vaccine medium and vaccination schedules on the induction of active immunity against Aujeszky's disease in maternally immune pigs, 89
Insulin and glucagon in sheep, Effects of intravenous infusions of cholecystokinin-8 and pentagastrin on plasma concentrations of, 298
Insulin and insulin-like growth factor-1 concentrations in cats, Effects of proligesterone and megestrol on plasma adrenocorticotrophic hormone, 175
Insulin and triglyceride concentrations in hypertriglyceridaemic donkeys, Relationship between plasma, 389
Interferon-γ, Regulation of mammary gland macrophage tumour necrosis factor-α production with, 252
Investigation into the batch killing of turkeys in their transport containers using mixtures of gases, An, 325
Isolation of *Mycoplasma hyorhinis* and *Mycoplasma arginini* from the ears of pigs with otitis media, 108

Jugular veins in dogs, Comparison of results of haematological and chemical analyses of blood samples obtained from the cephalic and external, 24

Keratan sulphate in canine arthropathies, Measurement of glycosaminoglycan and, 290
Ketoprofen in the treatment of field cases of bovine mastitis, Anti-inflammatory, 62
Killing of turkeys in their transport containers using mixtures of gases, An investigation into the batch, 325

Lack of effect of quinidine on divalent mineral absorption from the reticulorumen of sheep, 114
Latent papillomavirus infection in cattle, 151
Latex agglutination test for the qualitative detection of *Clostridium perfringens* epsilon toxin, A , 259
Leucocytozoon caulleryi by SDS-PAGE and Western blot, Analysis of schizont antigen of, 123
Lipoprotein during the oestrous cycle of the bitch, Changes in plasma, 82

Mammary gland macrophage tumour necrosis factor-α production with interferon-γ, Regulation of, 252
Mammary tumours, Immunohistochemical localisation of cytokeratin and vimentin intermediate filament proteins in canine, 225
Markers in ponies, Gastric emptying of solid, non-digestible, radiopaque, 386
Mastitis, Anti-inflammatory ketoprofen in the treatment of field cases of bovine, 62
Measurement of gastric emptying of water in foals by impedance epigastrography, 256
Measurement of glycosaminoglycan and keratan sulphate in canine arthropathies, 290
Measurement of right ventricular ejection fraction and volume by the thermodilution technique in the unsedated calf, 75
Megestrol on plasma adrenocorticotrophic hormone, insulin and insulin-like growth facrtor-1 concentrations in cats, Effects of proligesterone and, 175
Monofrequency forced oscillation technique for the investigation of pulmonary function in calves: in vitro and in vivo studies, 363
Mycoplasma arginini from the ears of pigs with otitis media, Isolation of *Mycoplasma hyorhinis* and, 108
Mycoplasma hyopneumoniae, A blocking ELISA using a monoclonal antibody for the serological detection of, 338
Mycoplasma hyorhinis and *Mycoplasma arginini* from the ears of pigs with otitis media, Isolation of, 108
Mycoplasma iowae strains and development of a PCR-based detection assay, Comparison of antigenic and pathogenic properties of, 179

N-methylglucamine antimoniate after intravenous, intramuscular and subcutaneous administration in the dog, Pharmacokinetics of, 144
($[Na^+ + K^+) - (Cl^- + SO_4^=]$) on bone in dairy cows at parturition, Effects of reducing dietary, 270

Observer variation in field data describing foot shape in cattle, 265
Oestradiol benzoate and progesterone on reproduction in prepubertal Hubei White and Meishan cross gilts, Effects of repeated challenges with exogenous, 119
Oestrous cycle of the bitch, Changes in plasma lipoprotein during the, 82
Oral bioavailability of sulphadizine and trimethoprim in fed and fasted pigs, 48
Otitis media, isolation of *Mycoplasma hyorhinis* and *Mycoplasma arginini* from the ears of pigs with, 108
Oxytocin release after inhibition of testosterone synthesis in the goat, Suppression of prostaglandin $F_{2\alpha}$ and, 95

Pancreatic secretion and the duodenal migrating myoelectric complex in calves, Plasma secretin fluctuates in phase with periodic, 332
Papillomavirus infection in cattle, Latent, 151
Parturient hypocalcaemia in dairy cows: effects of dietary acidity on plasma minerals and calciotrophic hormones, 303
Parturition, Effects of reducing dietary ($[Na^+ + K^+) - (Cl^- + SO_4^=]$) on bone in dairy cows at, 270
Pasteurella haemolytica infection on α_1-acid glycoprotein and albumin concentrations in serum and subcutaneous tissue chamber fluid of calves, Effect of, 158
Pathogenicity of *Enterococcus hirae* for chicken embryos and betamethasone-treated chicks, 397
Pentagastrin on plasma concentrations of insulin and glucagon in sheep, Effects of intravenous infusions of cholecystokinin-8 and, 298
Pharmacokinetics of N-methylglucamine antimoniate after intravenous, intramuscular and subcutaneous administration in the dog, 144
Phenylbutazone on the haemodynamic, acid-based and eicosanoid responses of horses to sustained submaximal exertion, Effect of, 352
Phosphorus kinetics in the sheep, Effects of a change in phosphorus requirement on, 262
Plasma secretin fluctuates in phase with periodic pancreatic secretion and duodenal migrating myoelectric complex in calves, 332
Pneumonic lesions from pigs at slaughter, Relationship between indicators of performance and the weight of, 240
Progesterone on reproduction in prepubertal Hubei White and Meishan cross gilts, Effects of repeated challenges with exogenous oestradiol benzoate and, 119
Proligesterone and megestrol on plasma adrenocorticotrophic hormone, insulin and insulin-like growth factor-1 concentrations in cats, Effects of, 175
Prostaglandin $F_{2\alpha}$ and oxytocin release after inhibition of testosterone synthesis in the goat, Suppression of, 95
Pulmonary function in calves: in vitro and in vivo studies, Monofrequency forced oscillation technique for the investigation of, 363
Pyoderma in the dog, An immunopathological study of deep, 18

Quinidine on divalent mineral absorption from the reticulorumen of sheep, Lack of effect of, 114

Regulation of mammary gland macrophage tumour necrosis factor-α production with interferon-γ, 252
Relationship between indicators of performance and the weight of pneumonic lesions from pigs at slaughter, 240
Relationship between plasma insulin and triglyceride concentrations in hypertriglyceridaemic donkeys, 389
Replication of Border disease virus in ovine lymphocytes and monocytes in vitro, 193
Reticulorumen of sheep, Lack of effect of quinidine on divalent mineral absorption from the, 114
Role of GABA receptors in the control of the omasal myoelectrical activity in sheep, The, 69
Rotavirus-associated diarrhoea in buffalo calves in Sri Lanka, 393

Selenium on in vitro cellular immune responses in cattle, Effects of dietary vitamin E and, 100

Serological evidence for antigenic relationships between *Ehrlichia canis* and *Cowdria ruminantium*, 170
Simple continuous and simultaneous determination of tetracycline residues, 277
Squamous cell carcinoma of the feline thymus with widespread apoptosis, 208
Sulphadiazine and trimethoprim in fed and fasted pigs, Oral bioavailability of, 48
Suppression of prostaglandin $F_{2\alpha}$ and oxytocin release after inhibition of testosterone synthesis in the goat, 95

Testosterone synthesis in the goat, Suppression of prostaglandin $F_{2\alpha}$ and oxytocin release after inhibition of, 95
Tetracycline residues, Simple continuous and simultaneous determination of, 277
Thermodilution technique in the unsedated calf, Measurement of right ventricular ejection fraction and volume by the, 75
Thymus with widespread apoptosis, Squamous cell carcinoma of the feline, 208
Toxicity of aflatoxin B_1 in broiler chicks and its reduction by activated charcoal, 37
Triglyceride concentrations in hypertriglyceridaemic donkeys, Relationship between plasma insulin and, 389
Trimethoprim in fed and fasted pigs, Oral bioavailability of sulphadizine and, 48

Urinary concentration of corticoids in normal horses and horses with hyperadrenocorticism, 126
Use of indirect immunofluorescence and Western blotting to assess the role of circulating antimyocardial antibodies in dogs with dilated cardiomyopathy, 245

Ventricular ejection fraction and volume by the thermodilution technique in the unsedated calf, Measurement of right, 75
Vimentin intermediate filament proteins in canine mammary tumours, Immunohistochemical localisation of cytokeratin and, 225
Vitamin E and selenium on in vitro cellular immune responses in cattle, Effects of dietary, 100